SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF132 (W-16): sc-249450

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. ZNF132 (zinc finger protein 132) is a 706 amino acid nuclear protein that belongs to the krüppel C_2H_2-type zinc-finger protein family. Containing 18 C_2H_2-type zinc fingers and one KRAB domain, ZNF132 may be involved in transcriptional regulation. ZNF132 exists as two alternatively spliced isoforms, and is encoded by a gene that maps to human chromosome 19. Chromosome 19 consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes.

REFERENCES

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2. Tommerup, N. and Vissing, H. 1995. Isolation and fine mapping of 16 novel human zinc finger-encoding cDNAs identify putative candidate genes for developmental and malignant disorders. Genomics 27: 259-264.
3. Sasai, N., et al. 2005. Identification of a novel BTB-zinc finger transcriptional repressor, CIBZ, that interacts with CtBP corepressor. Genes Cells 10: 871-885.
4. Li, J., et al. 2006. The zinc finger transcription factor 191 is required for early embryonic development and cell proliferation. Exp. Cell Res. 312: 3990-3998.
5. Filion, G.J., et al. 2006. A family of human zinc finger proteins that bind methylated DNA and repress transcription. Mol. Cell. Biol. 26: 169-181.
6. Wali, A., et al. 2007. Mapping of a gene for alopecia with mental retardation syndrome (APMR3) on chromosome 18q11.2-q12.2. Ann. Hum. Genet. 71: 570-577.
7. Rozsa, F.W., et al. 2007. Differential expression profile prioritization of positional candidate glaucoma genes: the GLC1C locus. Arch. Ophthalmol. 125: 117-127.
8. Zhao, D.X., et al. 2007. Overexpression and purification of single zinc finger peptides of human zinc finger protein ZNF191. Protein Expr. Purif. 53: 232-237.

CHROMOSOMAL LOCATION

Genetic locus: ZNF132 (human) mapping to 19q13.43.

SOURCE

ZNF132 (W-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNF132 of human origin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-249450 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF132 (W-16) is recommended for detection of ZNF132 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ZNF132 siRNA (h): sc-97195, ZNF132 shRNA Plasmid (h): sc-97195-SH and ZNF132 shRNA (h) Lentiviral Particles: sc-97195-V.

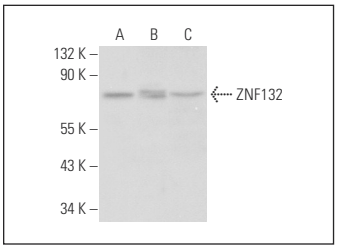
Molecular Weight of ZNF132: 81 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, A549 cell lysate: sc-2413 or U-698-M whole cell lysate: sc-364799.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ZNF132 (W-16): sc-249450. Western blot analysis of ZNF132 expression in Jurkat (**A**), A549 (**B**) and U-698-M (**C**) whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.